

DEGREE REQUIREMENTS AND CURRICULUM FOR ACADEMIC YEAR

DEGREE PROGRAMME IN MECHANICAL AND MANUFACTURING ENGINEERING

Specialisation of Mechanical and Production Engineering

Unit of Technology/Lappeenranta, valid for the students enrolled in 2008

STUDY MODULE		Academic year/Scope, cr.				*) FI/EN
		1.	2.	3.	4.	
BASIC STUDIES		143 cr				
000078	CORE STUDIES OF POLYTECHNIC	11 cr				
	KSU0036 Finnish Communication at Work	3	-	-	-	FI
	KRU0042 Swedish Communication at Work	-	-	3	-	FI
	KEN0076 English Communication at Work	-	3	-	-	FI
	KPE0042 Orientation Studies	2	-	-	-	FI
000028	COMMUNICATION	7 cr				
	KSU0041 Finnish Communication for Technology	-	4	-	-	FI
	KEN0079 English for Technology	-	-	3	-	FI
000010	MATHEMATICS	11 cr				
	KMA0069 Introduction to Mathematics	(3)	-	-	-	FI
	KMA0071 Mathematics I	3	-	-	-	FI
	KMA0067 Mathematics II	3	-	-	-	FI
	KMA0087 Mathematics III	-	5	-	-	FI
000012	PHYSICS	9 cr				
	KFK0018 Physics II	3	-	-	-	FI
	KFK0029 Physics III	-	3	-	-	FI
	KFK0001 Physics, Lab Course	-	3	-	-	FI
000014	INFORMATION TECHNOLOGY	6 cr				
	KTI0001 Information Technology I	3	-	-	-	FI
	KTE1275 Applications in Mechanical Engineering	-	3	-	-	FI
207245	INDUSTRIAL ECONOMY	8 cr				
	KLI0975 Industrial Economics I	-	-	3	-	FI
	KTE1284 Production Planning	-	-	-	5	FI
207202	MECHANICS	13 cr				
	KTE0921 Basics of Mechanics	3	-	-	-	FI
	KTE0001 Statics I	3	-	-	-	FI
	KTE0002 Statics II	-	3	-	-	FI
	KTE1532 Dynamics	-	-	4	-	FI
207203	TECHNICAL DRAWINGS	12 cr				
	KTE0513 Mechanical Drawings and CAD	6	-	-	-	FI
	KTE1277 Descriptive Geometry	-	3	-	-	FI
	KTE0671 Design Programs	-	3	-	-	FI
207223	MATERIALS AND STRENGTH OF MATERIALS	14 cr				
	KTE0431 Study of Materials I	3	-	-	-	FI
	KTE0008 Study of Materials II	-	3	-	-	FI
	KTE0673 Strength of Materials I	3	-	-	-	FI
	KTE1278 Strength of Materials II	-	5	-	-	FI

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Code	Course						
207207	MACHINE AUTOMATION	13 cr					
KTE0699	Pneumatics and Logics		3	-	-	-	FI
KTE0675	Digital Technology and Electronics		-	-	3	-	FI
KTE1337	Machine Automation		-	4	-	-	FI
KTE0464	Hydraulics		-	-	3	-	FI
209202	MECHANICAL ENGINEERING	12 cr					
KTE1279	Machine Elements		-	-	7	-	FI
KTE1280	Fluid and Thermo Machinery		-	-	-	5	FI
207224	ENGINEERING AND MANUFACTURING	27 cr					FI
KTE1281	Product Development and 3D-CAD		-	-	4	-	FI
KTE0514	Maintenance, Basics		-	3	-	-	FI
KTE0021	Manufacturing, Basics		3	-	-	-	FI
KTE0679	Manufacturing, Laboratory Workshops		-	3	-	-	FI
KTE1282	Welding and Sheet Metal Works		5	-	-	-	FI
KTE0024	Machining		-	3	-	-	FI
KTE1283	Workshop Measurements		3	-	-	-	FI
KTE1661	Mill Engineering		-	-	3	-	FI
PROFESSIONAL STUDIES		37 cr					
207244	SPECIALISATION OF MECHANICAL AND PRODUCTION TECHNOLOGY	37 cr					
KTE1286	Finite Element Method		-	-	5	-	FI
KTE1287	Vibration Mechanics		-	-	5	-	FI
KTE0696	Maintenance Technology		-	-	3	-	FI
KTE0690	Materials Selection		-	-	3	-	FI
KTE1533	Machine Design I		-	-	-	5	FI
KTE1534	Machine Design II		-	-	-	5	FI
KTE1285	Steel Structures		-	-	-	5	FI
KTE0525	Machine Elements II		-	-	-	3	FI
KTE0689	Construction Technology, Special Works		-	-	-	3	FI
ELECTIVE STUDIES		15 cr	-	4	5	6	
PLACEMENT		30 cr	6	6	6	12	
BACHELOR'S THESIS		15 cr	-	-	-	15	
TOTAL		240 cr					

*) FI = in Finnish, EN = in English